

Leading Technologies for Control



SGL™ Globe Control Valve



SGL

STK Linear Actuators

SELEKE’s spring cylinder actuator is a key element to the SGL excellent shut off characteristics.

The STK delivers more than three times the linear force offered by traditional diaphragm actuators while providing excellent throttling characteristics, stiffness and accurate response to control signal. The STK has been designed for supply pressures up to 150 psi (10.3 Bar), and unlike diaphragm actuators is field-reversible for air-to-open or air-to-close operations without any additional parts.

- length, delivering “zero” oscillations, and facilitating self-centering with its seat, for an exceptional tight shutoff.
- Valve and Actuator are lighter than comparable diaphragm type globe valves, also providing a smaller footprint for highly congested pipeline spaces, such as industrial process skids, off-shore platforms and FPSO’s.



The STK dynamic positioning accuracy means precise control, and faster response time upon the command of the control signal. The supply pressure is directed to both sides of the piston by the positioner, for stiff and precise actuator operation. This is a significant advantage over diaphragm actuators which depend only on spring robustness and a diaphragm membrane (both susceptible to degradation and wear).

As for plant assets management objectives, the STK standard sizes are 25, 50 and 100 which will handle 95 percent of all process applications, achieving significant savings vis-a-vis the large inventories of linear actuators for diaphragm actuated valves which require both air-to-open as well as air-to-close models.

Table I: STk Linear Actuator Specifications

Type	Double-acting piston and cylinder with fail-safe spring
Sizes	25, 50 and 100 inch squire
Action	Air-to-open Air-to-close Last position Field reversible
Operating Pressure	Max. 150 psig Max. 10.3 Bar
Stroking Speed	Less than 1 Second
Temperature Range	- 40 to 350 F (- 40 to 175 C) * For ambient temperatures higher than 180 F (82 C). Viton O-rings are required. * For temperatures bellow - 40 F (- 40 C), Fluorosilicone O-Rings are required.
Auxiliary Handwheels	- Declutchable side-mounted - Lever Gear - Lever Operator
Positioners	- Alphateck HPP2500 Penumatic positioner - HPP3000, 3500 & 4500 Digital Positioners

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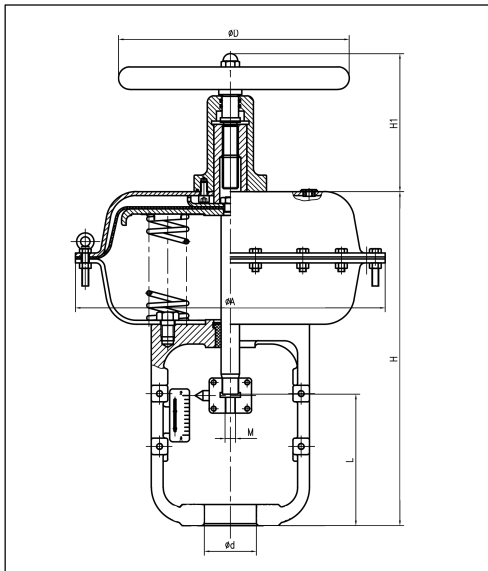
SFP Linear Actuators

SELEKE's spring film pneumatic actuator is a key element to the SGL excellent shut off characteristics.

The SFP delivers more than three times the linear force offered by traditional diaphragm actuators while providing excellent throttling characteristics, stiffness and accurate response to control signal. The SFP has been designed for supply pressures up to 60 psi (4.1 Bar), and unlike diaphragm actuators is field-reversible for air-to-open or air-to-close operations without any additional parts.

Multi spring film pneumatic actuator:

The SFP dynamic positioning accuracy means precise control, and faster response time upon the command of the control signal. The supply pressure is directed to both sides of the piston by the positioner, for stiff and precise actuator operation. This is a significant advantage over diaphragm actuators which depend only on spring robustness and a diaphragm membrane (both susceptible to degradation and wear).

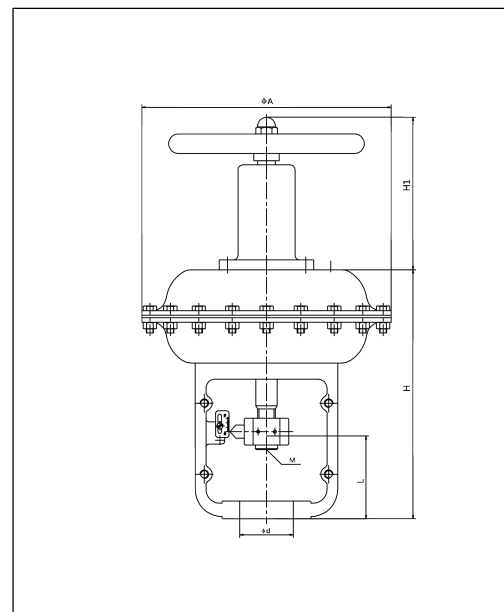


Type D

As for plant assets management objectives, the SFP standard sizes are 2D,2R,3D,3R,4D,4R and which will handle 95 percent of all process applications, achieving significant savings vis-a-vis the large inventories of linear actuators for diaphragm actuated valves which require both air-to-open as well as air-to-close models.

Size	A	D	H1	H	L	d	K	M
2D/2R	10.05	8.7	5.9	17.8	3.7	2.2	3.14	0.397
3D/3R	13.77	10.2	7.9	21.5	4.2	2.56	3.34	0.551
4D/4R	18.50	12.5	9.8	30.3	4.9	3.15	3.94	0.708

Type	Double-acting piston and film with fail-safe spring
Sizes	2D,2R,3D,3R,4D,4R
Action	Air-to-open Air-to-close Last position Field reversible
Operating Pressure	Max. 60 psig Max. 4.1 Bar
Stroking Speed	Less than 1 Second
Temperature Range	- 40 to 300 F (- 40 to 125 C) * For ambient temperatures higher than 180 F (82 C). Viton O-rings are required. * For temperatures below - 40 F (- 40 C), Fluorosilicone O-Rings are required.
Auxiliary Handwheels	- Decutchable side-mounted - Lever Gear - Lever Operator
Positioners	- Alphateck HPP2500 Penumatic positioner - HPP3000, 3500 & 4500 Digital Positioners



Type R



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The information and specifications described in this brochure are considered accurate, however they are intended for information purpose only and should not be considered as certified information.

Considered that SELEKE products are continuously improved and upgraded, specifications, dimensions, and information described herein are subject to change without notice.

For further information or verification, consult your SELEKE representative. Specific instructions for the installation, operation, troubleshooting and maintenance of the SGL control valves are contained on the SGL Maintenance bulletin.

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